

NOV 1 1938

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# CURTISTRIP LAMP Fluorescent

## FLUORESCENT LAMPS

Out of the scientific laboratories of the great American Lamp companies has come a revolutionary lamp development to take its place with Incandescent Mazda, the new Fluorescent Lamp. Stepped-up lighting intensities without increased wattage consumption . . . absence of brilliance, glare and shadows . . . accurate reproduction of natural daylight . . . new and vitally beautiful color values . . . all have made Fluorescent lighting a phenomenal success.

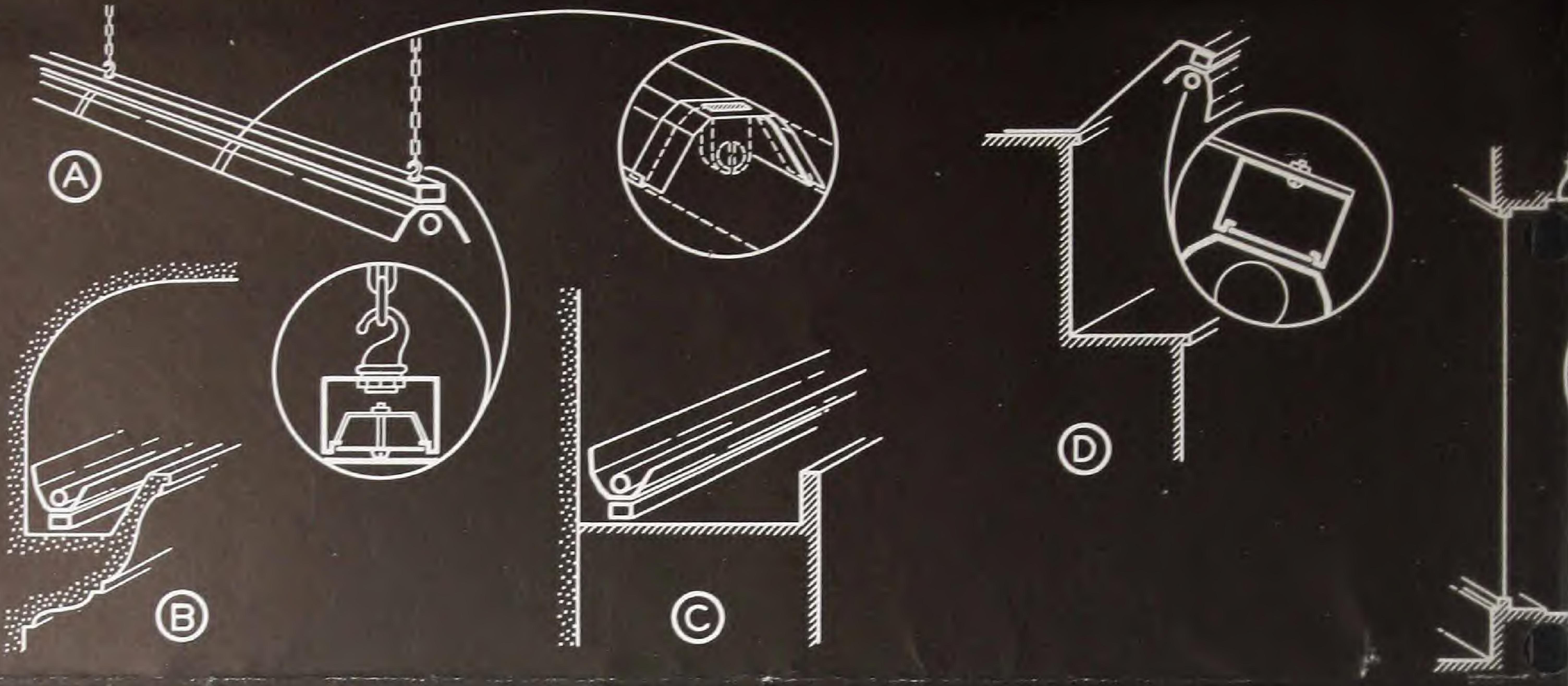
## CURTIS LIGHTING

To meet the extensive demand for Fluorescent lamp installations, Curtis Lighting has developed and already distributed a flexible line of Fluorescent lighting equipment which is now available through the Electrical Trade everywhere.

## CURTISTRIP and FLUORESCENT FITTINGS

The standard wiring channel, CurtiStrip, has been established as the best basis for Fluorescent lamp assemblies. Into it will fit neatly and compactly the necessary Fluorescent "Auxiliaries" and wiring. Because it may be installed on the job to any length, CurtiStrip permits all the varied lighting schemes to which this linear Fluorescent lamp is applicable.

With the Special Curtis Fittings now available, CurtiStrip forms the foundation on which many types of Fluorescent fixtures may be assembled. CurtiStrip and Fluorescent Fittings are offered for single lamp or continuous strip assemblies, for exposed or concealed fixtures, for direct or indirect lighting schemes, for industrial, commercial, and decorative installations.



# The Basis of Fluorescent

**CURTISTRIP**, the standard wiring channel, is used as the basis of all Curtis Fluorescent equipment assemblies. It carries neatly and compactly the several wire circuits and the "Auxiliary" necessary for each Fluorescent lamp. At the same time it supports special covers, sockets and reflectors. (For more catalog information on CurtiStrip and fittings see page 6.)



**DIMENSIONS** CurtiStrip is  $2\frac{1}{2}$ " wide by  $1\frac{1}{8}$ " deep. The channel, made of cadmium-plated steel, comes in 10-foot sections. It may be cut with hacksaw to any lengths required on the job. Sections longer than 10 feet may be coupled together with No. 16 coupling to form a continuous channel.

Formula used in figuring length of CurtiStrip to be installed with single lamp assemblies or continuous strip lighting assemblies:

$$\text{Lamp Size (18", 24", or 36")} \times \text{Number of Lamps} + \frac{1}{2}^{\prime\prime}* = \\ \text{Length of CurtiStrip to be installed}$$

\* Allowing  $\frac{1}{4}$ " extra for each end cap, No. 6, used.

**FLUORESCENT LAMPS AND "AUXILIARIES"** listed here for customers' convenience, are made by the Lamp Companies and are available through their distributors. All Fluorescent lamps come in three lengths and in the following colors: Red, Gold, Pink, Blue, Green, White, and Daylight. A separate "Auxiliary" (a choke coil with "starting" device), is needed with each Fluorescent lamp. In ordering the "Auxiliary" from your usual source of electrical supply, care must be taken to specify type which will fit CurtiStrip. The following Catalog Nos., so far announced, fit CurtiStrip: Nos. 58G512, 58G513, 58G514, S892455, S892456, S892457, S892458, S892616.

## FLUORESCENT LAMPS AVAILABLE

Lamp Watts	Volts	Length	
15 watt T-8	115	18"	
15 watt T-12	115	18"	15 watt
20 watt T-12	115	24"	20 watt
30 watt T-8	220*	36"	30 watt

## "AUXILIARY" AVAILABLE

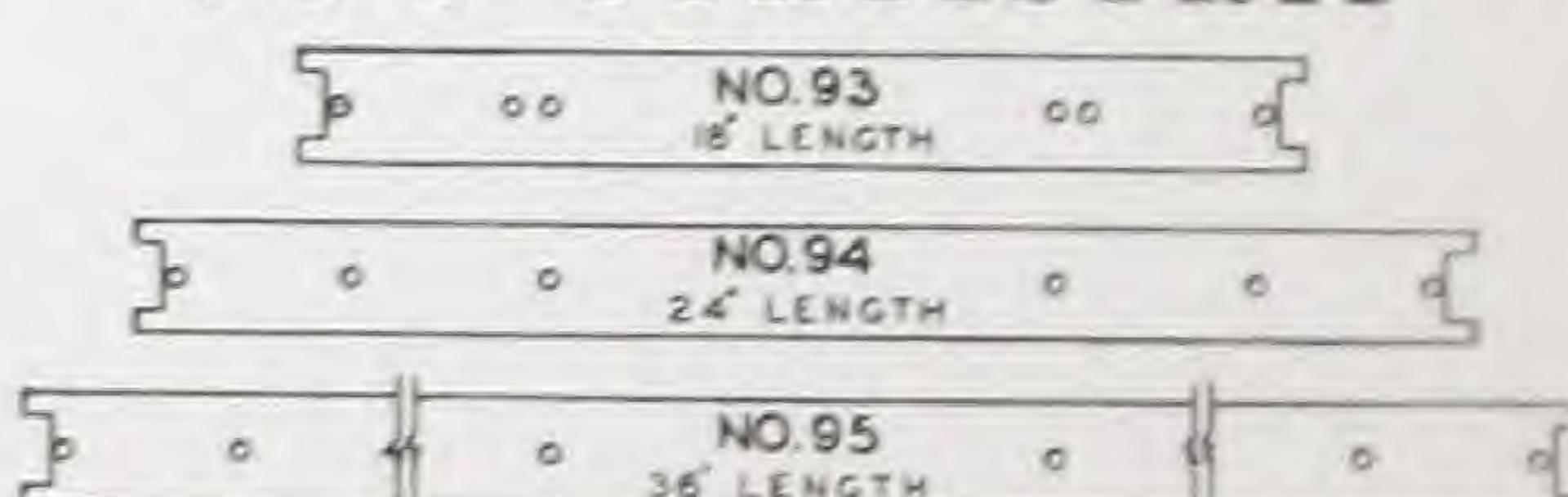
For Lamp	Voltage Supply Required
15 watt	110-120
20 watt	110-120
30 watt	220-240*

"Auxiliaries" for operation on 110-120 volt and 190-208 volt circuits are available to fit CurtiStrip.

**SOCKETS**, although not made by Curtis, are made available for the customer's convenience. Each Fluorescent lamp requires two special sockets. The same socket is used for all sizes of Fluorescent lamps. Sockets are made of moulded plastic with slotted locks to accommodate bases of lamp. Socket is fastened to each end of the Special CurtiStrip Cover (see below) by one screw and nut supplied with Socket.

Socket, Cat. No. 89, Price each..... \$0.40

## FLUORESCENT FITTINGS FOR CURTISTRIP



**SPECIAL COVERS** (used only with Fluorescent equipment), made of cadmium-plated steel, snap into standard channel. One special cover, the same length as lamp with sockets, is used with each lamp in assembly. The "Auxiliary" centered on the underside of cover is fastened by two screws, washers and nuts (supplied with cover). A notch and screw hole is provided at each end of cover for socket. Two screw holes are also provided for attachment of reflector on top side of cover.

For Lamp	Type	Cover Length	Cat. No. Cover Only	Price Each
15-watt, 115 volt	T-8 or T-12	18"	93	\$0.45
20-watt, 115 volt	T-8	24"	94	.50
30-watt, 220 volt	T-8	36"	95	.60

# CURTISTRIP IS STANDARD FOR FLUORESCENT ASSEMBLIES

110-22.

**CurtiStrip is inexpensive**

**Available from jobbers' stocks**

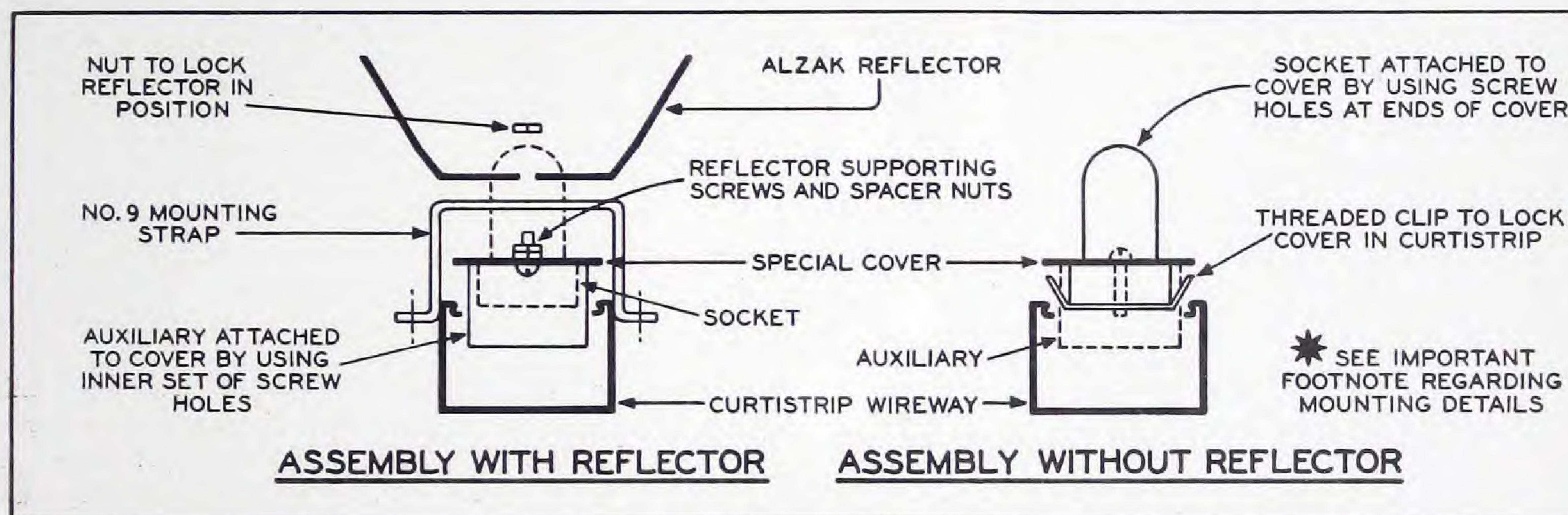
**Can be cut to any length**

**Used with or without reflectors**

**Compact and easy to assemble**

## HOW TO ASSEMBLE FLUORESCENT EQUIPMENT ON CURTISTRIP:

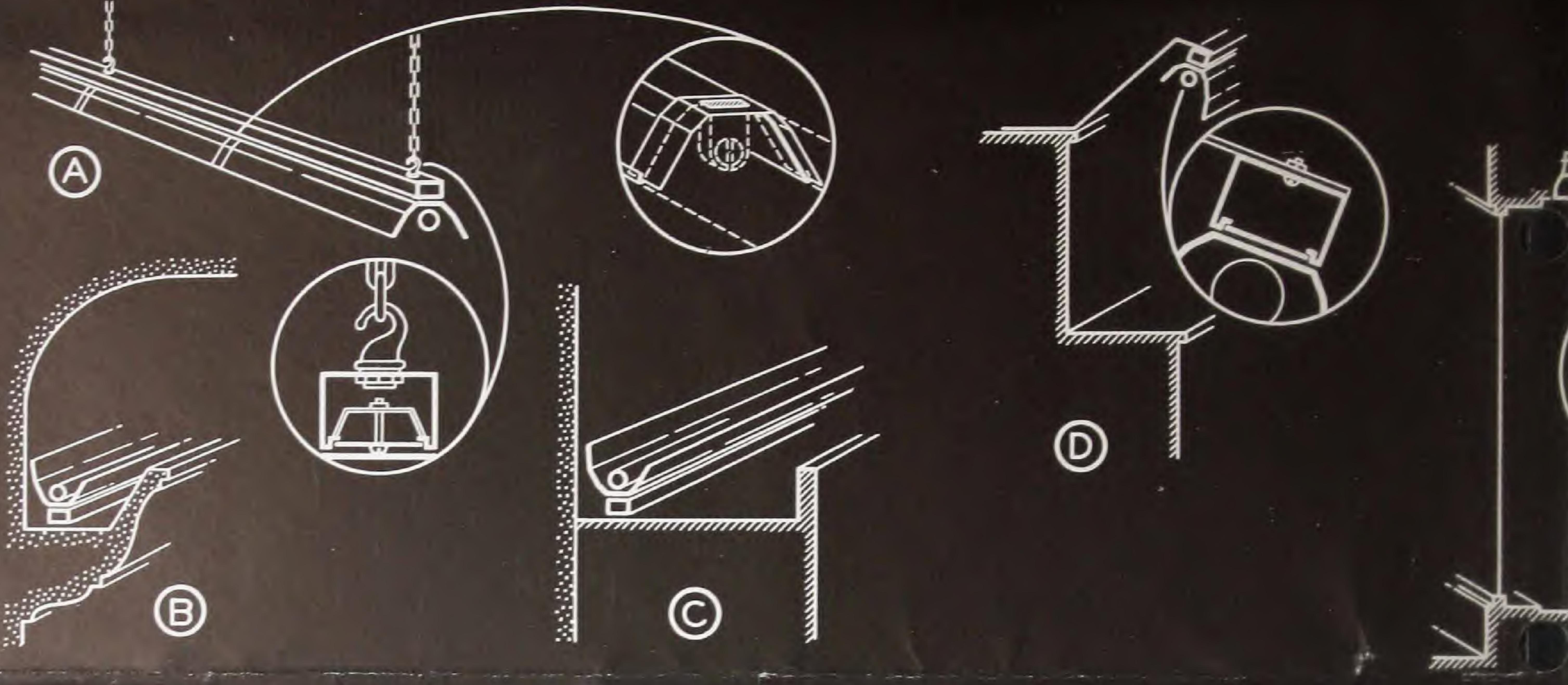
With each lamp the following equipment is needed: (1) two Fluorescent lamp sockets, (2) two cover locking clips, No. 118 (if No. 9 Strap is not used for mounting), (3) one length of Special CurtiStrip Cover same length as lamp, (4) one separate choke coil "Auxiliary," (5) CurtiStrip channel and two End Caps if ends of channel are to be closed. If No. 9 Strap is used for mounting, two are necessary with single lamp assembly, or one per lamp section in continuous assembly. One reflector per lamp is needed if the installation requires reflectors.



## STEPS IN ASSEMBLING:

1. Attach "Auxiliary" to Special Cover, using center holes on cover. Screws should be inserted with screw heads on outside of cover. Slip on washers and tighten nuts.
2. Wire sockets and place them in notches at ends of cover. Run screw (with screw head up) into holes adjacent to notches at ends of Special Cover. Apply fiber insulator and nuts. Cover locking clips, Cat. No. 118, if used, will take place of nuts at bottom of socket.
3. Insert screws (from underside of cover) for attaching reflector, using remaining holes nearest sockets. Apply two nuts on each screw on top of cover before reflector is placed in position (step 6). These nuts act as spacers and enable the reflector to be fastened in position after the cover is snapped in place in the channel.
4. Snap Special Cover with "Auxiliary" into CurtiStrip.
5. When two or more reflectors are used continuously a connector is next installed, by placing rectangular opening in bottom of connector down over the two adjacent sockets.
6. Place reflector screw holes on supporting screws projecting above cover and spacer nuts, and fasten with nuts. If reflector connector has been used, ends of connector will fit into the folded edges of the reflector sides. N.B. When No. 9 Strap is used, mount assembly before putting on reflectors and lamps.
7. Lamps should be slipped in slots of sockets and given quarter turn.

\* When assembly is mounted with screws or bolts through back of CurtiStrip, holes must be drilled with regard to socket and "Auxiliary" and channel bolted to the surface before starting to assemble equipment.



# The Basis of Fluorescent

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\* Allowing  $\frac{1}{4}$ " extra for each end cap, No. 6, used.

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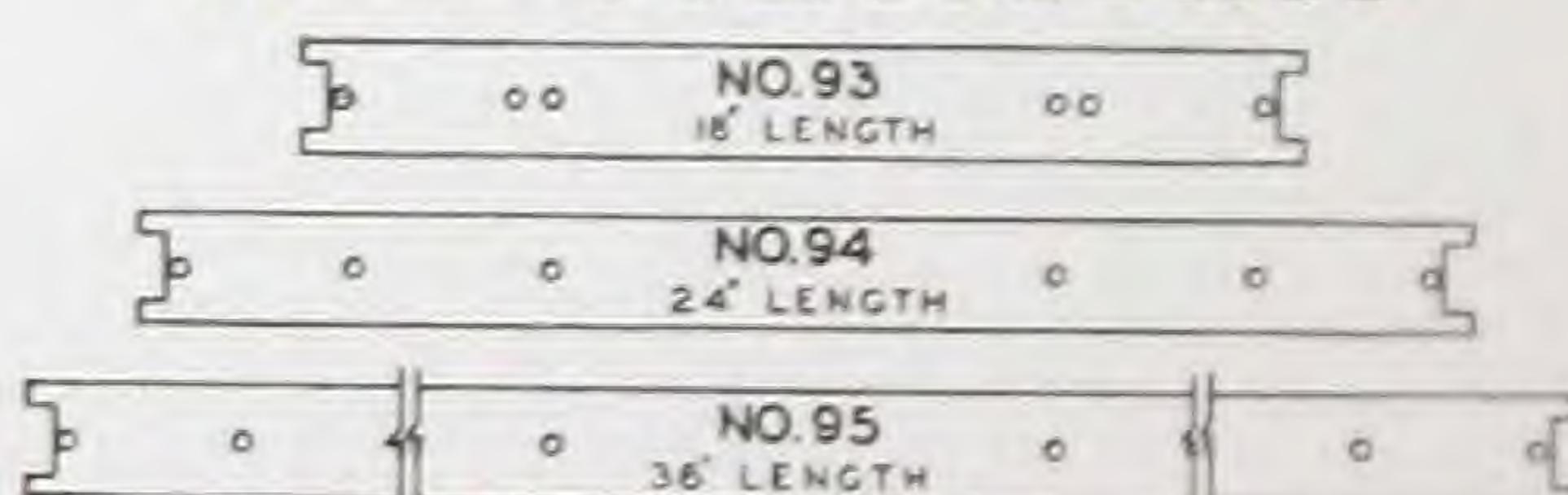
FLUORESCENT LAMPS AVAILABLE			"AUXILIARY" AVAILABLE	
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15 watt T-12	115	18"	20 watt	110-120
20 watt T-12	115	24"	30 watt	220-240*
30 watt T-8	220*	36"		

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Socket, Cat. No. 89, Price each..... \$0.40

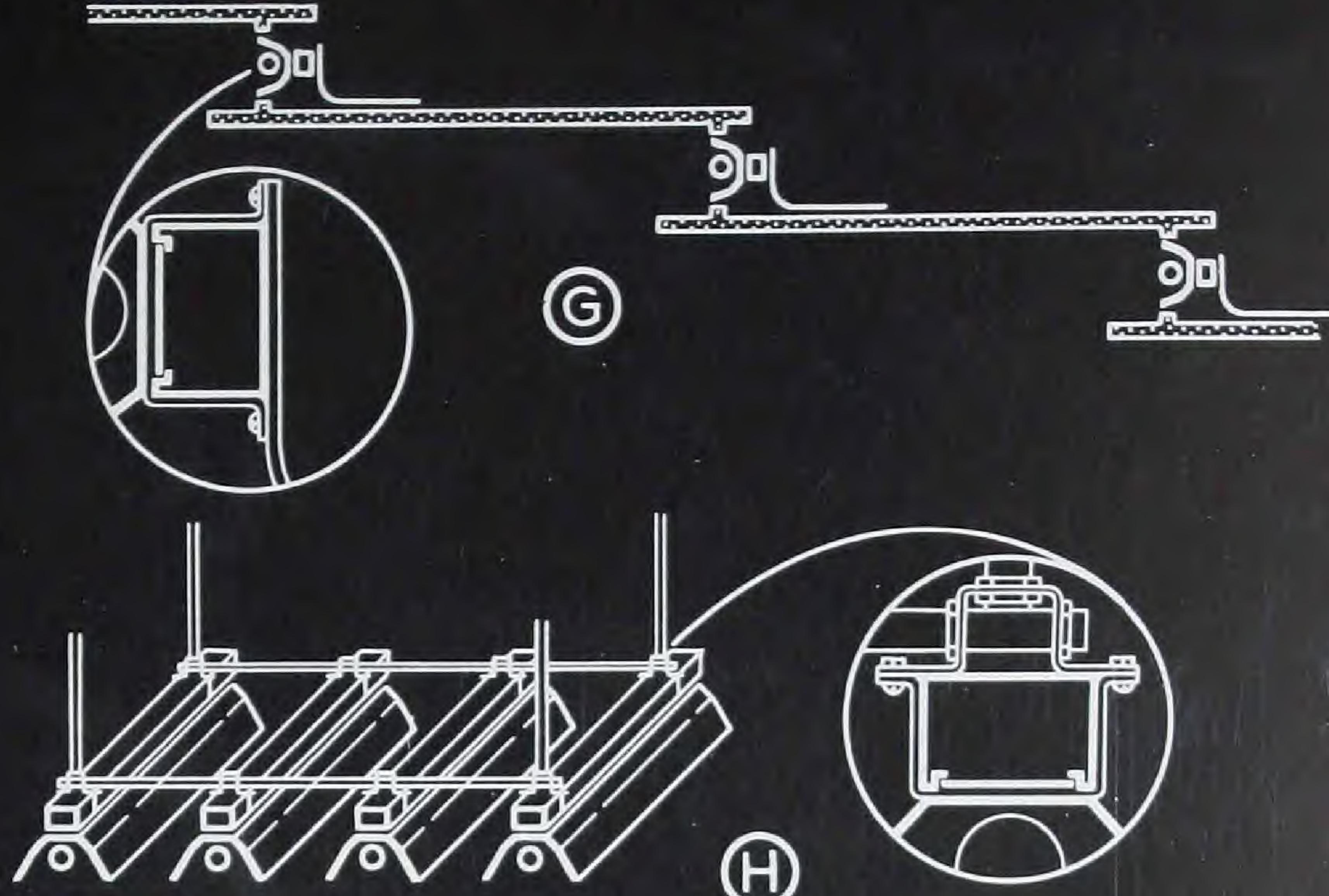
## FLUORESCENT FITTINGS FOR CURTISTRIP



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For Lamp	Type	Cover Length	Cat. No. Cover Only	Price Each
15-watt, 115 volt	T-8 or T-12	18"	93	\$0.45
20-watt, 115 volt	T-8	24"	94	.50
30-watt, 220 volt	T-8	36"	95	.60

E



# Installations . . . CURTISTRIP

**COVER LOCKING CLIPS** (note application A), made of steel, lock special covers firmly into CurtiStrip. Their use is recommended if CurtiStrip No. 9 strap is not used when Fluorescent lamp assemblies are suspended (as in Applications A and D) or mounted (as in Applications I and K) at perpendicular and downward angles.

One Cover Locking Clip is used to replace screw nut which fastens each socket to end of special cover.

To remove cover and "Auxiliary" from CurtiStrip, loosen screw on each socket.

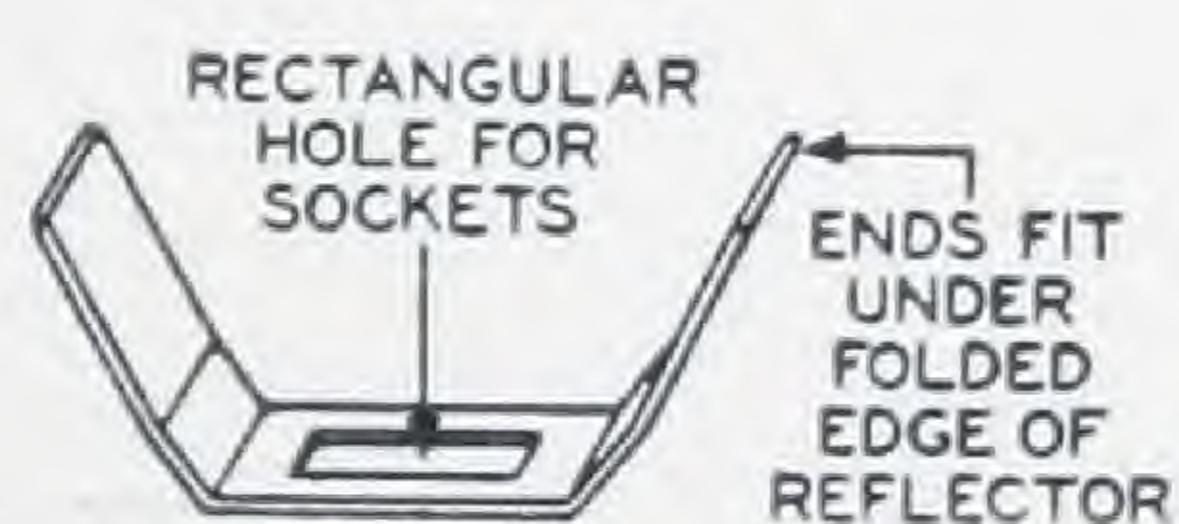
Cover Locking Clip, Cat. No. 118,  
Price each ..... \$0.06

**REFLECTORS** of Alzak aluminum for standard sizes of Fluorescent lamps are available in either symmetric or asymmetric shape. Reflectors with permanent, diffuse Alzak reflecting surface increase illuminating efficiency of Fluorescent lamps by directing and smoothly distributing the light. One reflector, the same length as lamp, is used with each lamp in assembly. Two screws and six nuts are supplied for attaching reflector to top side of Special Cover. (See assembly diagram, page 5.)

Length	Reflector Shape	Cat. No. Refl. Only	Price Each
18"	Symmetric	76	\$1.95
18"	Asymmetric	77	2.60
24"	Symmetric	86	2.50
24"	Asymmetric	87	3.25
36"	Symmetric	96	3.75
36"	Asymmetric	97	5.05

**SYMMETRIC TYPE** Reflectors have a modified "U" shape. They produce a symmetrical distribution of light with respect to an axis through the center line of the lamp. (Note Applications A, E, F, G, H, and L.)

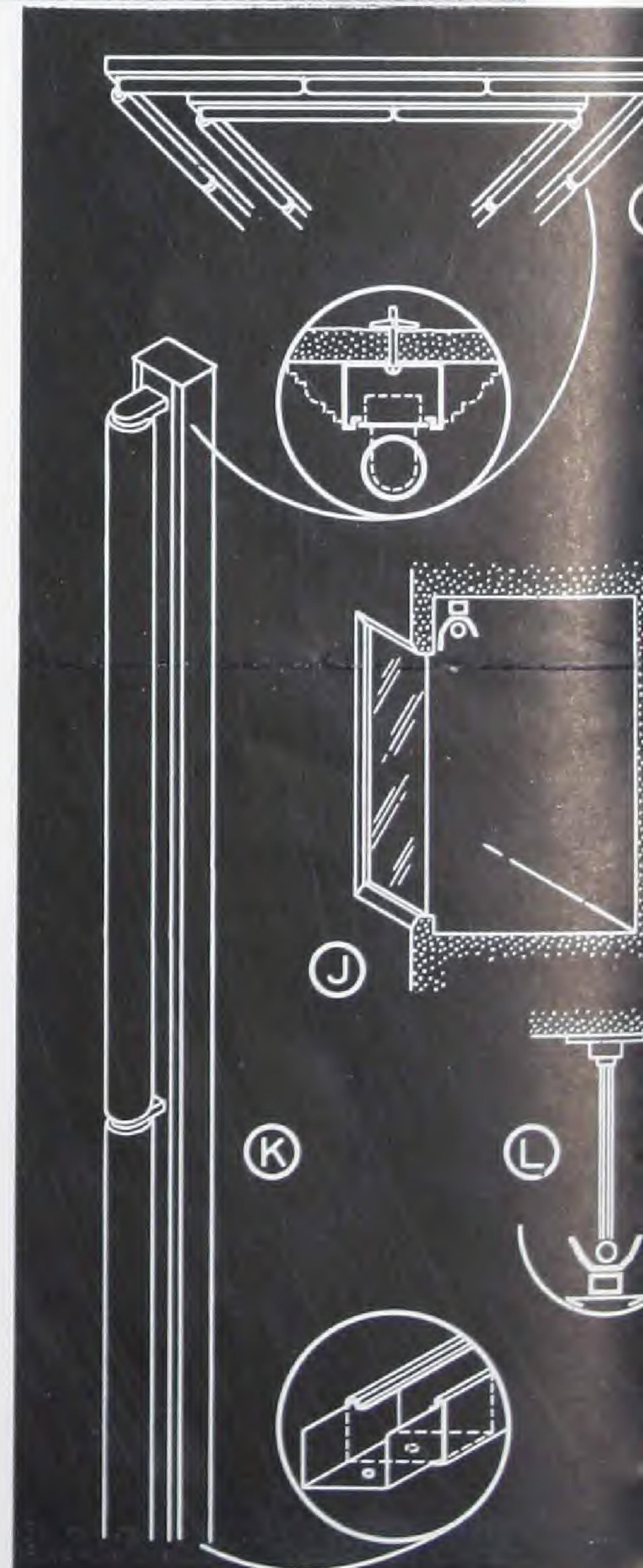
**ASYMMETRIC TYPE** Reflectors have one side extended to produce asymmetric distribution. (Note Application Drawings B, C, D, and J.)



**REFLECTOR CONNECTORS** for symmetric and asymmetric reflectors are  $1\frac{1}{8}$  inches wide, made of cadmium-plated steel and finished to match reflectors. Recommended to insure permanently straight alignment and eliminate leakage of light between reflectors whenever two or more reflectors are installed end to end. A rectangular hole provided in connector permits protrusion of two adjacent sockets. Reflector ends are placed on connector until connector fits under folded edges at top of reflector sides.

Symmetric Reflector Connector, Cat. No. 112,  
Price each ..... \$0.12

Asymmetric Reflector Connector, Cat. No. 113,  
Price each ..... \$0.15



# NOTES ON APPLICATION DRAWINGS

## A—SUSPENDED DIRECT LIGHTING TROUGH

recommended for industrial lighting over machinery-flanked aisles, assembly lines, inspection and color-matching tables, proofreaders' desks and presses. CurtiStrip acts as a wiring channel and support for lamps and symmetric reflectors which direct light on the working plane.

Detail drawing of suspension method shows malleable iron hook (with  $\frac{3}{8}$ " iron pipe male thread and center hole for two No. 14 fixture wires) attaching trough to chain. In all mountings shown on these pages in which bolts or screws are used through the back of CurtiStrip, a cover locking clip, No. 118, at the base of the socket is installed to secure "Auxiliary"-supporting cover in channel.

Other detail drawing shows reflector connector. Connectors are used in all installations when two or more reflectors are lined up end to end, in order to assure straight alignment and eliminate leakage of light. Rectangular hole in connector is slipped over two adjacent sockets; then reflector ends are placed in connector so that their folded edges lap over connector.

**B—COVE LIGHTING** recommended for clubs, lobbies, restaurants, cocktail lounges and night clubs. When Daylight or white lamps are used a comfortable, smooth general illumination is derived; with Fluorescent colored lamps striking decorative effects are obtained. CurtiStrip with asymmetric reflectors facilitates installation of Fluorescent lamps in coves.

**C—CONCEALED LIGHTING FOR TOPS OF SHOW CASES** recommended for stores and display rooms. Continuous CurtiStrip Fluorescent assemblies with asymmetric reflectors may be placed above show cases as a general or supplementary lighting source. Colored lamps add vitality to lighting schemes.

**D—MACHINE OR SWITCH BOARD LIGHTING** High-intensity, glareless Daylight lighting is directed on both vertical and horizontal working planes. CurtiStrip, bolted to a bracket, holding assembly at proper height and angle, supports asymmetric reflector and lamp assembly. The extended side of reflector acts as an eye shield for the operator.

**E—SUPPLEMENTARY SHOW WINDOW LIGHTING** The unique quality of Fluorescent colors gives new attention-value to windows. One continuous symmetric reflector-line directs light downward, one directs light upward, to create a smooth vertical plane of illumination at back of window.

Detail drawing shows application of CurtiStrip No. 9 strap. The ears of strap are bolted to flat surface. The strap fastens CurtiStrip and firmly supports Fluorescent assembly in channel. In all installations where strap is used, cover locking clips No. 118 are unnecessary. (No. 9 strap should be used in this same manner in cove lighting, top of show case, bank teller's cage, indirect trough, and small display case applications.)

**F—BANK TELLER CAGE LIGHTING** A single Fluorescent lamp assembly with symmetric reflector can be neatly mounted with two No. 9 Straps against cornice in front of typical teller's cage to produce glareless, shadowless direct lighting.

## G—BUILT-IN DECORATIVE CEILING LIGHTING

(One of many possible applications shown in drawing). Color treatment in this lighting scheme is appropriate for theatres, lobbies, night clubs, etc. Concealed above edge of staggered ceiling levels, lines of Fluorescent lamps are fastened on CurtiStrip so that symmetric reflectors direct light horizontally over ceiling. Detail drawing shows CurtiStrip No. 15 bracket used to fix equipment in place. The Fluorescent assembly is bolted to the upright arm of the bracket; the perpendicular arm of the bracket in turn is bolted to ceiling.

## H—MULTIPLE FLUORESCENT FIXTURE

recommended for suspension over working planes where extremely high-intensity, daylight-quality illumination with a minimum of glare, shadow and heat is required, i. e. color matching tables and critical locations in assembly and inspection runs, in laboratories, etc. Symmetric reflector is used with each single lamp assembly. Two threaded pipes run through CurtiStrip No. 13 brackets at ends of each lamp section to hold sections in parallel alignment. Pipe hangers, attached to corner brackets, suspend the assembly.

## I—SURFACE-MOUNTED CEILING INSTALLATION

recommended for barber shops, demonstration exhibits, model kitchens and other locations where efficient and decorative lighting is desired. Here a rectangular lighting design is shown; however many variations of pattern may be accomplished with this type of installation. Parallel lines of CurtiStrip, either bolted or mounted with No. 9 strap to ceiling, support lamps in a compact manner. High-intensity Fluorescent lighting is comfortable because of low surface brightness.

## J—GENERAL SHOW WINDOW LIGHTING

CurtiStrip carries a line of Fluorescent lamps across the front of the show window or display case. Asymmetric reflectors direct the light evenly throughout the case. Variety may be given to displays by color lamps.

For large window areas, several parallel lines of Fluorescent lamps may be installed to produce overall high intensity display lighting.

**K—FLUORESCENT STRIP LIGHTING** Exposed linear lighting is made practical by the low brilliance of the Fluorescent lamp. CurtiStrip mounted directly on walls or ceilings carries neatly and economically all wires, "Auxiliaries," and lamps.

When CurtiStrip is bolted to wall or ceiling, cover locking clips, No. 118, must be used to secure covers in channel. When No. 9 straps are used, cover locking clips are *not* needed. CurtiStrip and No. 9 straps may be painted to match walls or ceiling if desired.

Detail shows CurtiStrip coupling, No. 16. One outstanding characteristic of CurtiStrip is that it may be assembled out of the standard 10 ft. sections to any required lengths.

Other detail drawing is an end view of section mounted on wall or ceiling with bolts. When appropriate a wooden moulding may be placed flush against both sides of CurtiStrip to add decorative effect.

## L—INDIRECT FLUORESCENT TROUGH

High lumen output per watt of Fluorescent lamps produces high level and comfortable general lighting. CurtiStrip supports lamps and symmetric reflectors upright in trough. The channel may be fastened with No. 9 straps inside trough.

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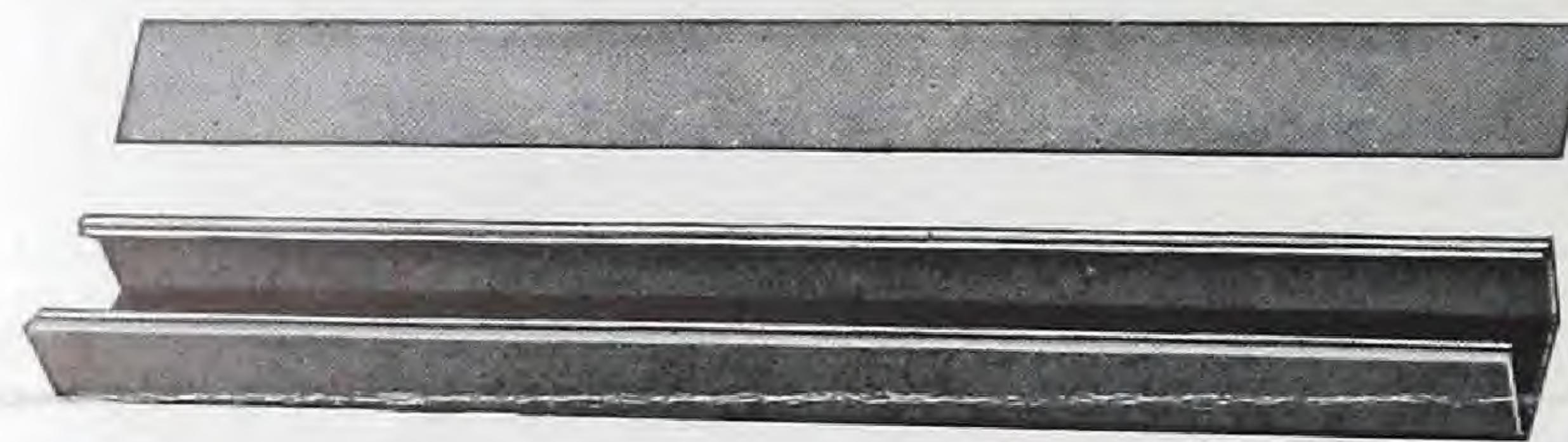
# CurtiStrip

TRADE MARK REG.

## CURTISTRIP IN FLUORESCENT ASSEMBLIES

CurtiStrip wiring channel offers to Architects, Contractors and Illuminating Engineers a flexible structural material for all types of Fluorescent assemblies. Sections of any length may be cut out of the standard 10 foot CurtiStrip lengths; the No. 16 CurtiStrip Coupling, which fits neatly inside channel, forms a sturdy but imperceptible connector when channel is used in continuous linear lighting strips longer than 10 feet.

Standard CurtiStrip fittings with the special Fluorescent fittings (shown on inside of folder) render CurtiStrip installations easy and inexpensive.



## CURTISTRIP CHANNEL AND COVER

Channel and cover made of 20-gauge cold rolled steel, Cadmium plated. Size, 2½" wide x 1⅞" deep.

Cat. No.	Description	Std. Pkg.	Price per Ft.
1	Channel with cover, 10 ft. lengths.....	100 ft.	\$0.40
1-A	Channel only, 10 ft. lengths.....	100 ft.	.35
1-B	Cover only, 10 ft. lengths.....	100 ft.	.10

## CURTISTRIP FITTINGS

Standard Finish: Cadmium Plate

Fitting	Cat. No.	Description	Std. Pkg.	Price Each
No. 6	6*	End cap for closing ends of CurtiStrip. Has ½" knockout	10	\$0.20
No. 12	12	Service box for connecting ¾" to 1½" conduit to CurtiStrip .....	1	1.75
No. 14	14	Adjustable elbow for angles of 70° to 180°.....	1	1.75
No. 16	16	Coupling for connecting two pieces of CurtiStrip .....	10	.30
No. 21	21	Switch Plate mounting. Takes standard toggle switch.....	10	.40

\* Cat. No. 31, end cap, same as No. 6 except with ⅛" rolled edge hole in place of knockout. Std. Pkg., 10. Price each.....\$0.20

# CurtiStrip

TRADE MARK REG.

# CurtiStrip

TRADE MARK REG.

## STANDARD COVERS

Standard flat snap-in covers of cadmium-plated steel permit outlets to be installed on any spacing. Cover, placed between sockets or fittings, is easily cut to length with tinner's shears.

## END CAPS

End Caps made of cadmium-plated steel are used for closing ends of CurtiStrip or for making service connections through a ½" knockout. End Cap is provided with bolt and nut for attaching.

## RECEPTACLE

CurtiStrip plug-in porcelain receptacle has two-piece construction to simplify wiring.

Cat. No. 4—Standard Pkg. 10..... Price Each \$0.55

## CURTISTRIP SUPPORTS

These five standard hangers offer complete flexibility for mounting CurtiStrip.

No. 9	9	Strap for holding CurtiStrip against any flat surface.....	10	\$0.10
No. 13	13	Bracket to hang CurtiStrip on pipe or chain hanger....	10	.40
No. 24	24	Bracket assembly .....	10	.70
No. 2	2	Universal Hanger. Includes two-piece perforated hanger, one strap, 4 angle brackets and 6 bolts.....	10	1.00
No. 15	15	Hanger for mounting CurtiStrip on transom bar or side wall .....	10	.50

## OTHER USES FOR CURTISTRIP

CurtiStrip is also used as the standard wiring channel for X-Ray Show Window Reflectors, Cove Lighting, Lumiline LightStrip, and a variety of other installations where adaptability and compactness are requisite. Write for information.

SERIAL NO. 877 PRINTED IN U.S.A.

PAGE XR-44C-6

# Curtis Lighting

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TORONTO

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NEW YORK